



Intel® Media Center Reference Design

Product Highlights

- Scalable performance, with support from the Intel® Celeron® processor at 300 MHz to the Intel® Pentium® III processor at 1.0 GHz and beyond, with processor side bus (PSB) performance of 66 or 100 MHz
- Reference board populated with an Intel Celeron processor at 733 MHz
- Two 10/100 Mbps LAN connect interfaces for a cost-effective networking solution
- Intel® Hub Architecture for increased I/O bus bandwidth, providing better concurrency for next-generation multi-media applications
- Intel® Graphics Technology for a more stable platform, higher quality graphics and reduced OEM support costs
- Support for up to 512 MB SDRAM
- Support for ATA/66 drives
- Support for 370-pin compatible processors

Additional Hardware Recommended

- 80 GB hard disk drive
- Chassis and thermal solution attached
- 64 MB memory

Video Components

- Focus Enhancements* FS460 video processor
- Sigma Designs* EM8475 DVD & MPEG 1/2/4 audio video decoder
- Phillips* SAA 7114 decoder and analog tuner
- Cirrus Logic* CS92288 AV Codec

Board Peripheral Features

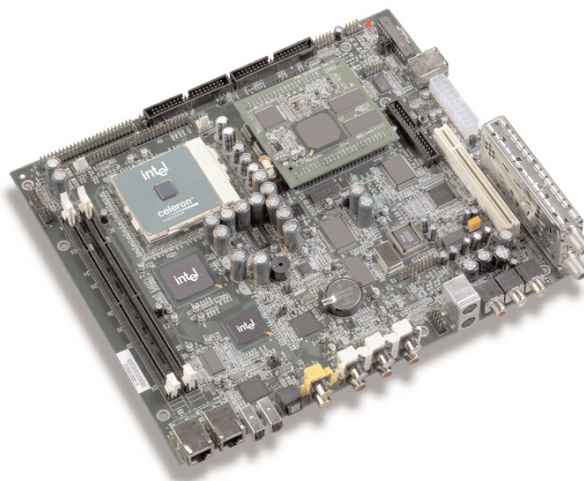
- Support for up to 4 IDE ATA/66 drives
- Two USB 1.1 ports
- Two 1394 firewire ports

User-Accessible On-Board Connectors

- One serial RS-232 port
- Keyboard/mouse controller
- Two fan controllers w/ tachometer
- Two game ports (optional)
- One SmartCard* interface
- One VGA output

Video Connectors

- Component video out
- Composite video out
- S-Video out



Audio Connectors

- RCA L/R out
- S/PDIF out (RCA and optical)

Product Overview

The Intel® Media Center Reference Design consists of downloadable schematics for board-level solutions for next-generation interactive audio/video devices and applications, and includes technical documentation and demonstration software. It is designed to operate within a chassis as the center of the home media experience.

With this proof of concept, customers can develop next-generation media center applications with features such as personal video recording, video on demand, and Internet browsing and are also able to test software performance across a spectrum of processor speeds.

The reference design board supports Intel® Pentium® III and Celeron® processors in the 370-pin Flip-Chip and Plastic Pin Grid Array (FC-PGA and P-PGA) packages. The board includes a processor side bus that automatically scales from 66 MHz to 100 MHz based on the processor used.

The Intel® Scalable Performance Board Design Program provides developers a wide range of price and performance options, can reduce the design and validation effort for multiple designs, can lower the total cost of ownership by reducing warehouse inventory and manufacturing costs, and provide faster time-to-market.

To view the Intel Media Center Reference Design web page at: developer.intel.com/platforms/applied/eiacomm/reference_configs.htm

Benefits for Developers

Time-to-Market

- A comprehensive platform solution that can dramatically accelerate time-to-market. Intel works with independent hardware and software vendors to quickly enable the implementation of designs

Economical

- Schematics are available for download at no cost from Intel's Developer site at:
developer.intel.com/platforms/applied/eiacomm/reference_configs.htm

Extended Product Lifecycle

- Embedded Intel processors and other components are designed to meet the extended lifecycle requirements of media center applications

Scalable and Flexible

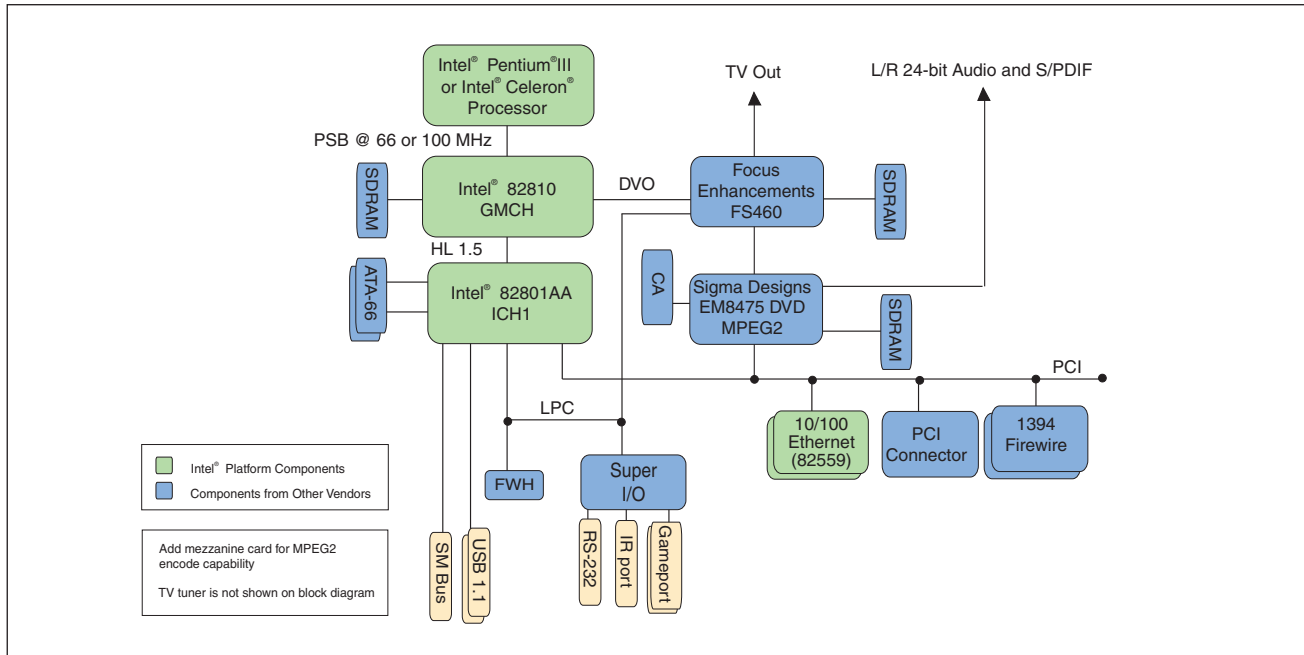
- Intel's scalable platform allows you to use the same motherboard and populate the right Intel processor for the right level of performance
- The scalability of Intel® Architecture in the 370-pin socket enables developers to differentiate their products with value-added features and functionality while maintaining the level of performance that end-users expect

Quality

- Intel's manufacturing capacity and quality requirements help ensure CPU and chipset reliability and customer satisfaction

Broad Application Support

- The platform is based on open Intel Architecture, familiar to a majority of programmers. Moreover, the architecture supports multiple operating systems



Block Diagram

Intel Access

Developer's Site	developer.intel.com
Communications Appliance Reference Designs	developer.intel.com/platforms/applied/eiacomm/reference_configs.htm
Embedded Intel® Architecture Home Page	developer.intel.com/design/intarch
Other Intel Support: Intel Literature Center	developer.intel.com/design/litcentr/ (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
General Information Hotline	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

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